



wave-scan DOI

The Objective Eye for a Brilliant Finish

The appearance of surface changes with the size and distinctness of structures. Structures will be perceived as being very distinct, if e.g. an edge is reflected on the surface with high contrast and sharpness. The wave-scan DOI evaluates structure size as well as the brilliance of the surface.

Total Appearance - Orange Peel and DOI

- High correlation to the visual by analyzing the structure size: Ultra short to Ultra long wave
- DOI: Distinctness of Image - objective criteria for brilliance and gloss
- Classical Long wave (LW) and Short wave (SW)
- Independent of paint system and refractive index - no matter whether comparing 1 K, 2 K or powder coating
- Reproducible results on test panels and curved parts ($r > 1 \text{ m}$)
- For solid and metallic coatings

... in one handy instrument

- portable; easy to operate with one hand
- highly reliable results due to self calibration
- operation according to your own sampling procedures
- storage of 599 readings with clear object identification
- auto-chart software for professional analysis, documentation and data management

Ordering Info

Cat. No.	Description	Price
GB-4816	wave-scan DOI	19950.00

Comes complete with:

wave-scan DOI
Reference tile with certificate
Protective holder
Interface cable
Software auto-chart on CD-ROM¹
Batteries
Operating Manual
Carrying case

¹Hardware requirements:

PC with operating system: Windows® 95/98 or NT (Pentium recommended), CD-ROM drive, min. 32 MB RAM (recommended 128 MB), min. 40 MB hard-disk space, free serial and parallel interface, Excel® 97-Vers.8 for pre-prepared worksheets

Technical Specifications

Measurement Range DOI 0 to 100 Long wave 0 to 100 Short wave 0 to 100	Object Curvature radius $> 1 \text{ m}$	Interface serial RS 232
Structure spectrum du $< 0.1 \text{ mm}$ Wa 0.1 to 0.3 mm Wb 0.3 to 1.0 mm Wc 1.0 to 3.0 mm Wd 3.0 to 10.0 mm We 10.0 to 30.0 mm	Measurement Time 4 seconds	Dimensions (H x W x L) 120 x 65 x 205 mm
Repeatability² 4 % or > 0.4	Light Source Laser diode, LED	Weight 2.6 lbs. (1.2 kg)
Reproducibility 6% or > 0.6	Energy Output $< 1 \text{ mW}$ (laser class 2)	Batteries 4 x 1.5-Volt AA, app. 1000 measurements
Scan Length 50 / 100 / 200 mm	CCD-Sensor 640 x 480 Pixel	Operating temperature +50 °F to 104 °F (running) (+10 °C to 40 °C) 32 °F to 140 °F (storage) (0 °C to 60 °C)
Resolution 375 measurement points/cm	Memory 599 readings (40 profiles)	Relative Humidity up to 85% at 95 °F (35 °C)

² Standard deviation

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